

"HORNET"
(CROWN "HA-13")
HAND HAMMER DRILL
INGERSOLL-RAND COMPANY
11 BROADWAY, NEW YORK

Form No. 4014

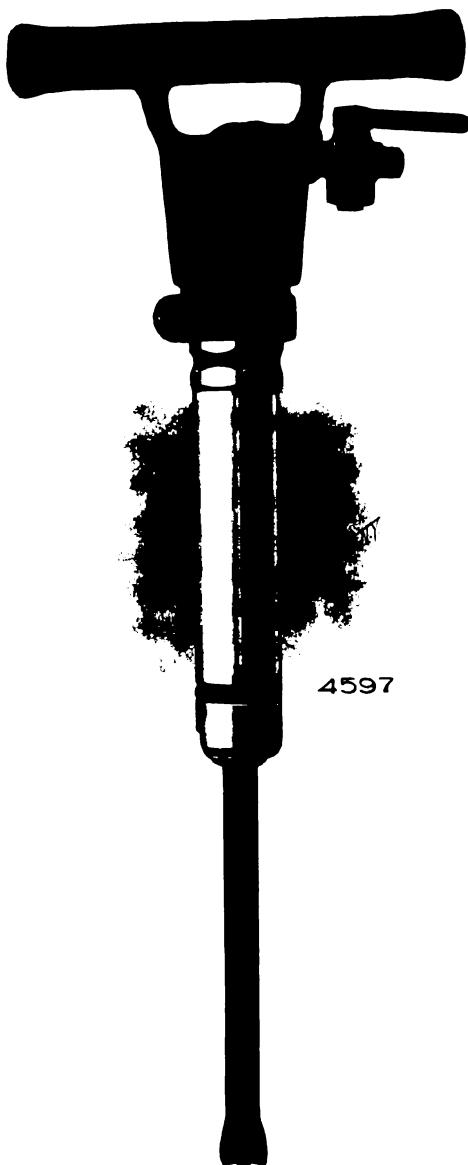
January, 1911



4764

Drilling with the "Hornet" Hand Hammer Drill

"H O R N E T" H A N D H A M M E R D R I L L



Standard "Hornet" Hand Hammer Drill ("Crown HA-13")

"HORNET" HAND HAMMER DRILL

THE "Hornet" Hand Hammer Drill is one of the standard line of Ingersoll-Rand "Crown" hammer drills, with symbol "HA-13." It is intended for somewhat heavier duty than the "Wasp" ("Crown HA-14") plug drill, being adapted for holes up to 48 inches in depth, with bottom diameter of 1 to 1½ inches. It is fitted with a hollow anvil block and removable bushing, for use with hollow steels, a part of the exhaust passing through the steel and blowing the face clean under the bit. But it can be fitted with a solid anvil block for use with solid steels without shank and collar.

The handle is of a special improved type, giving either the usual spade grip in the middle or two grips well separated at the ends for easy rotation. Air admission is at the side of the head-block and a standard ½-inch drill throttle valve is screwed in at this point.

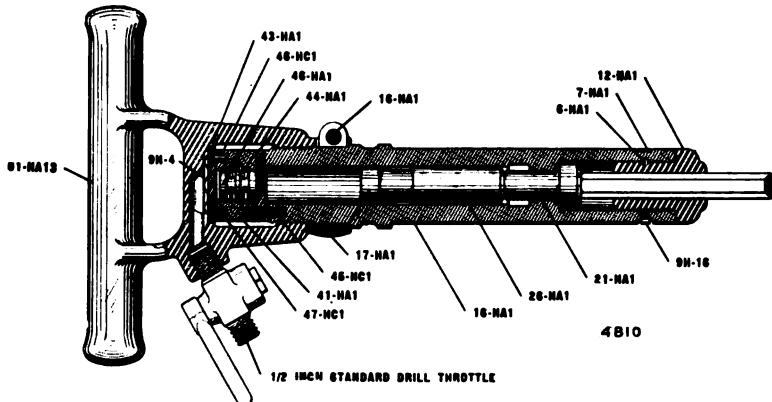
The "Hornet" has the latest type of "Crown" valve. The cylinder is of special steel, hardened and ground in the bore. The piston or hammer is of hardened steel, as well as all other wearing parts. The best materials are used throughout, and the workmanship cannot be surpassed. The tool is one of large capacity, utmost convenience and splendid wearing qualities. The specifications of the "Hornet" are given below.

Cylinder Diameter	1¾ inches
Stroke	3¼ inches
Length over all	21 inches
Size of Air Inlet	½ inch
Weight	40 lbs.

Water-displacement meter tests of this tool show the following air consumptions:

AIR PRESSURE	CU. FT. FREE AIR PER MIN.
40 lbs.	12
50 lbs.	18
60 lbs.	22
70 lbs.	26
80 lbs.	30
90 lbs.	35
100 lbs.	40

"HORNET" HAND HAMMER DRILL



Duplicate Part List

01-HA13 Handle	20-HA1 Piston
9H-4 Inlet Screen	21-HA1 Anvil Block
10-HA1 Cylinder	41-HA1 Valve Box
6-HA1 Cylinder Bushing Pin	40-HA1 Valve
7-HA1 Cylinder Bushing Pin Spring	43-HA1 Valve Box Top Cap
12-HA1 Cylinder Bushing	44-HA1 Valve Box Bottom Cap
9H-16 Cylinder Plug	45-HC1 Valve Box Bottom Dowel
17-HA1 Cylinder Clamp	46-HC1 Valve Box Cap Dowel
18-HA1 Cylinder Clamp Bolt	47-HC1 Valve Box Top Dowel
19-HA1 Cylinder Clamp Bolt Washer	